

## **ABSTRACT**

An improved multilayer body system, adapted for use in protective sports equipment, is described which comprises in combination in sequence a center core layer of a lightweight high strength impact resistant material layer, a first layer of a foam type padding entirely surrounding and bonded to the inner core layer, a second layer of a padding type material layer completely surrounding and enclosing the inner layers, thus acting as an outer cover layer, of which the two layers are then securely stitched at their periphery. The construction method described herein also ensures that the inner layers are securely held in place and thus immobilized from unexpected and unwanted movement within the embodiment. Also the padding construction ensures safety and comfort.